

9/25/96  
U10#01059



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# PCB DECONTAMINATION TECHNICAL WORK DOCUMENT (TWD)

PCB CONTAMINATED  
GRA-50

TWD NO. 96-1340

PARCEL NO. 05-J2 (BERTH 15)

SSPORTS ENVIRONMENTAL DETACHMENT  
VALLEJO, CALIFORNIA

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Prepared by:  
SSPORTS ENVIRONMENTAL DETACHMENT  
Code 120 PCB  
Vallejo, Calif. 94592

**PCB DECONTAMINATION  
TECHNICAL WORK DOCUMENT  
INITIAL ISSUE**

Prepared by:	<u>Bill Turner</u>	Date	<u>9/25/96</u>
	Code 120 PCB		
Reviewed by:	<u>JP Mason</u>		<u>9/25/96</u>
	Code 120 PCB		
Approved by:	<u>JL Paris</u>		<u>9/25</u>
	Code 120 PCB (Project Manager)		

Rev.	Description	Approval	Date

**1.0 Purpose**

**1.1** The purpose of this TWD is to decontaminate GRA-50 which exceeds acceptable PCB levels of < 2 ppm (lab result concentration of 17 ppm, see enclosure 1). The GRA was previously decontaminated via TWD 96-1311. The GRA-50 is located at berth 15 in parcel 05-J2. The reference sample number is 6260-0406.

**2.0 Not Used**

**3.0 References**

**3.1** OPNAVINST 5100.23D -- Navy Occupational Safety and Health Program Manual.

**3.2** Workplan PCB Decontamination for Mechanical Machinery, Mare Island Naval Shipyard.

**3.3** Mare Island Naval Shipyard Environmental Protection Manual of 1 February 1994

#### **4.0 Health & Safety/General Notes**

- 4.1** All work performed shall be in strict adherence to the Navy Occupational Safety and Health (OSH) Manual (reference 3.1), the Health and Safety Plan (reference 3.2, section 4), and the Environmental Protection Manual (reference 3.3).
- 4.2** At least two people shall be present at all times while chemical or physical hazards exist and access is being controlled to the PCB work area.
- 4.3** Personal protective equipment (PPE) shall be as follows:  
Saranex coated tyvek coveralls.  
Viton gloves with latex gloves worn over them.
- 4.4** Hazards at the site are PCBs in the insulating oil of the GRA, and an electrical hazard if the GRA is energized. Obtain assistance from Public Works Center (PWC) to de-energize the GRA and verify that power is off prior to starting decontamination. Lockout/tagout (required by reference 3.1) shall be used.
- 4.5** Plastic sheeting, a berm, or other secondary containment is needed to catch accidental spillage during draining and refilling.
- 4.6** Temperatures above 100 degrees are not expected, nor is any hot work authorized, so PCBs will not be airborne.
- 4.7** Decontamination area access shall be controlled by rope or tape barriers.
- 4.8** Phone numbers are as follows:  
Hospital: 9-911 or 556-3040      Ambulance: 9-911 or 556-3040  
Emergency: 9-911      Fire: 9-911 or 556-3333  
Police: 9-911 or 556-3040      Project Mgr: 556-3280  
Haz. Waste & Sampling Group: 9-480-9488

#### **5.0 Decontamination Procedures**

##### **5.1 Support Area (Personal Decontamination)**

A support area (for setting down equipment, for personal decontamination, etc.) shall be established prior to beginning decontamination. Questions and concerns regarding the support area may be addressed to Code 100.1, Health and Safety at 6-3245.

##### **5.2 HSP Forms**

Code 120 PCB has provided minimum specific health and safety information in this TWD. Changes that may have occurred since the TWD was written may require a change to the health and safety procedures. Prior to beginning decontamination, the On-Site Health and Safety Coordinator shall review the health and safety information. If a change is required, contact the TWD originator. HSP Acceptance Form 4.17 (enclosure (2)), must be completed and signed by each person performing the decontamination.

##### **5.3 Sampling Evolution (Place an x or number on applicable line)**

Initial Sampling \_\_\_\_\_ Resampling 1 (1,2,3, etc.)

#### 5.4 Specific Instructions

Prior to decontaminating GRA-50, obtain the assistance of PWC to de-energize the GRA. <sup>ST 10/1/96</sup>  
Perform decontamination of GRA-50 as set forth in reference 3.2, Section 2, paragraph 2.5.2 as follows: Drain all fluid; rinse ~~three times with solvent~~ <sup>ONCE WITH SOLVENT & RINSE ONCE WITH OIL.</sup>; refill with insulating oil - electric (stock number 9160-00-685-0913 or equivalent). Double wash / rinse the external surfaces of the GRA with kerosene. PCB items shall be moved in accordance with reference 3.1 (Part IX, section 13, paragraph 3.5.3). Properly contain, store, label and dispose of contaminated debris, absorbents, rags, and other materials resulting from the decontamination. Latest disposal requirements are in reference 3.3 (Chapter 9, 4.c.(1)).

#### 5.5 Resampling

Resampling is required. Take one oil grab sample.

5.6 The shop performing the decontamination shall sign below to certify that the decontamination conforms to reference 3.2 and this TWD.

5.6.1 Code 130 PCB performed decontamination of GRA-50 as required.

Code 130 PCB Paul Apple Date 10-4-96

5.6.2 Return completed information package (TWD and HSP forms) to the TWD originator, Code 120 PCB, Building 229, third floor.

#### 6.0 Code 120 PCB Review and Resampling Results Acceptance

6.1 Code 120 PCB conduct review and approval of information package. Code 120 review for acceptance of resampling results. For results to be satisfactory they must be < 2 ppm.  
Results are: ☒ SAT ☐ UNSAT (remarks required)

Remarks: 6267-0001 → ND @ 1 ppm

PCB decontamination conforms with requirements of this TWD.

Code 120 PCB Bill Turner Date 10/30/96

#### 7.0 Enclosures

- (1) Lab Results
- (2) Health And Safety Plan Acceptance Form

MARE ISLAND NAVAL SHIPYARD  
ENVIRONMENTAL LABORATORY  
CODE 120 LAB  
Calif. DHS Certificate No. 2001

9/24/96

LAB NO: 96MI00716  
DOC. NO: 62622699  
SAMPLE NO: 6260-0406  
DESCRIPTION: 05-j2/05-j2/twd#96-1311  
EXTRACTION NO: E3283

DATE SAMPLED: 9/17/96  
DATE REC'D : 9/18/96  
DATE EXTRACTED: 9/19/96  
DATE REPORTED: 9/22/96

ANALYSIS: POLYCHLORINATED BIPHENYLS  
METHOD: Modified EPA 8080

Arochlor	PCB's	Report Limit
----- A1260	----- 17ppm	----- 1ppm

MS.

QA/QC Data is available from the Laboratory upon request.

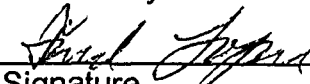
ENCLOSURE (1)  
TWD 96-1340

## Health And Safety Plan Acceptance Form

**INSTRUCTIONS:** This form shall be completed by each person prior to beginning work at the PCB work area. Attach the completed forms to the TWD.

TWD No.: 96-1340  
ITEM: GRA-50

By my signature below, I acknowledge that I have read and understand the contents of the Health & Safety Plan for this project. I agree to perform my work in accordance with the Health and Safety Plan.

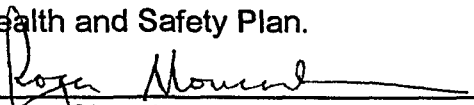
  
Signature

FRED LOPER  
Print Name

130 PCB  
Code

10-3-96  
Date

By my signature below, I acknowledge that I have read and understand the contents of the Health & Safety Plan for this project. I agree to perform my work in accordance with the Health and Safety Plan.

  
Signature

ROGER Moncada  
Print Name

130 PCB  
Code

10-3-96  
Date

Enclosure 2